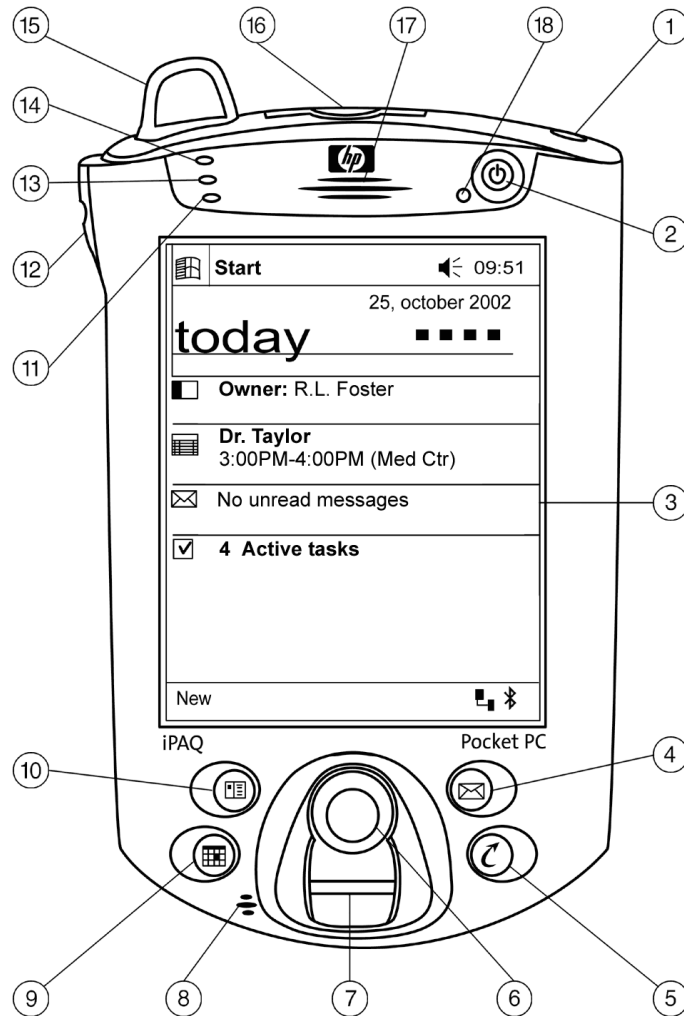


Overview



- | | |
|----------------------------|--------------------------------|
| 1. Speaker | 10. Microphone |
| 2. Power Indicator | 11. Calendar Button |
| 3. Stylus | 12. Contacts Button |
| 4. Power Button | 13. Volume |
| 5. Color Display | 14. Light Sensor |
| 6. Inbox Button | 15. Active Bluetooth Indicator |
| 7. iTask Button | 16. Wireless LAN Indicator |
| 8. 5-Way Navigation Button | 17. Antenna |
| 9. Fingerprint Reader | 18. SD Slot |

Overview

At A Glance

- Integrated Wireless LAN 802.11b
- Integrated Bluetooth™
- Integrated Biometric Fingerprint Reader
- Removable/Rechargeable Battery
- Dazzling Transflective TFT color liquid crystal display
- Integrated SD slot
- Intel® XScale processor
- Increased memory
- Advanced Power Management
- Consumer Infrared and IrDA SIR
- 3.5 mm 4-way Audio Jack
- Microsoft® Pocket PC 2002

Standard Features

Models

iPAQ Pocket PC h5450 – 48-MB ROM/64-MB RAM WLAN/BT/Biometrics/SD

264493-001 – U.S. Commercial
264493-011 – Australia/New Zealand
264493-021 – Europe (Norway, Denmark, Sweden, Finland, Netherlands)
264493-031 – UK, Singapore, Hong Kong
264493-041 – Germany
264493-051 – France
264493-061 – Italy
264493-071 – Spain
264493-161 – Latin America
264493-121 – French Canadian
264493-201 – Brazilian Portuguese
264493-291 – Japan
264493-371 – Singapore, Thailand, Malaysia
264493-AA1 – Simplified Chinese for Mainland China
264493-AB1 – Traditional Chinese for Taiwan
264493-AC1 – International English for Hong Kong
264493-AD1 – Korea

iPAQ Pocket PC h5455 –48-MB ROM/64-MB RAM WLAN/BT/Biometrics/SD

264493-002 – U.S. Retail

Processor	400 MHz Intel PXA250 Application Processor
Memory	64-MB SDRAM; 48-MB Flash ROM Memory
Input Method	Handwriting recognition, soft keyboard, character recognition, voice recorder, inking
Interfaces	3-mode alarm notification Vibrate, Flashing green LED, tone, pop-up message Charge active: flashing / solid amber LED Bluetooth active: flashing /solid blue LED WLAN active: Flashing green LED WLAN enabled, searching, but not connected: flashing amber LED

Standard Features

Cradle Interfaces	Connector 1 Cable 1 USB or Serial cable connects to PC DC Jack connector for AC Adapter 1 Stylus Holder 2 holes, on left and right front Stabilizing Tab Release Button 2 Tabs engage the sides of Pocket PC when no Expansion Pack is in use Base extension An extendable base which can be used to raise cradle to enhance biometric fingerprint swipe motion while in cradle
Display	Transflective TFT liquid crystal display 64K color (65,536 colors) 16-bit touch-sensitive transflective thin film transistor (TFT) liquid crystal display (LCD) Viewable image size – 2.26 in wide x 3.02 in tall (57.6 mm wide x 76.8 mm tall), 3.8 in Diagonal (96 mm)
Power Supply	1250 mAh Lithium-Ion Polymer removable / rechargeable battery (in docking cradle or with AC Adapter) Internal Back up battery - Allows user to swap main removable battery with the system power in standby 2500 mAh Lithium-Ion Polymer Extended Battery (sold as an accessory) Battery Re-Charge Time System in OFF mode or Standby 2.5 hours System ON (depending on system power consumption) 3 to 6 hours NOTE: Battery life will vary based on the usage pattern of an individual user and the configuration of the handheld. Use of some attachments may significantly decrease battery life.
Expansion Capabilities	Supports Expansion Packs Integrated SD slot - supports SD/MMC type standard, SDIO ready
Audio Capabilities	Audio record and playback (play MP3 music or audio programs from the Web, as well as records and plays back voice notes or meeting notes) Volume up/down/mute Integrated speaker, 3.5 mm stereo headphone and microphone jack
Ergonomic Design Features	Multifunction power button 5-way Joypad Volume up/down/mute Biometric Fingerprint Reader Touch-sensitive display for stylus or fingertip Microphone and Speaker on front-side of unit

Standard Features

HP Exclusive Applications These are the extras that HP put in ROM

(On device)

iPAQ Fingerprint Reader: enhanced security
iPAQ File Store: non-volatile storage in flash ROM;
iPAQ Task Manager: access and launch programs easily,
iPAQ Backup: utility for Backup/Restore to Main Memory, Memory Card, or iPAQ File Store:
iPAQ Image Viewer: view images and create slide shows,
Nevo: Universal Remote Control,
Adjustable Standby Settings: Utility for adjusting power conservation modes, Utilities:
Self Test, Expansion pack, iPAQ Audio, Power Status

Companion CD from HP APPLICATIONS

Full Versions

Jeode Java Virtual
Machine
Macromedia® Flash™
Player*
Quick View Plus
FileCrypto Data Encryption
Colligo
Bust'em game
SuperScape interactive
game
Adobe PDF Viewer
RealOne Player for Pocket
PC
iPresenter PowerPoint
converter
Pocket Watch World Clock

Trial Versions

Xcellenet Device Management Agent
Wordlogic Predictive Keyboard
Eletel Messaging Software
Margi Presenter-to-Go (requires purchase of additional hardware)
Ewallet
ListPro
Peacemaker Pro application on SKU 264493-002 – U.S. Retail

CD LINKS

CheckPoint
NetMotion
Avaya IP Softphone
IP Blue VTGO!
Cisco CallManager
Pocket Presence Running
Voice IP
Vindigo
Audible Manager and
Audible Player (Service
plan
equipped to download and
play Audible content –
link)
SingleTap
Handango
Infowave SymmetryPro
GoAmerica Document
Manager
CNM Network Xpress
Conferencer

Additional Documentation

iPAQ Reference Guide on PDF and ebook (certain countries only)

Standard Features

NOTE: Programs could vary based on SKU. Some programs are accessed through CD links to download web sites.

NOTE: * = This product features the Macromedia Flash Player. For further information on the Macromedia Flash Player, visit <http://www.macromedia.com/software/flash/about/>.

Operating System Applications	Powered by Microsoft Windows® for Pocket PC 2002 Calendar, Contacts, Tasks, Voice Recorder, Notes, Pocket Word (with Spellchecker), Pocket Excel, Pocket Internet Explorer, Windows Media Player 8 (MP3, audio and video streaming), Calculator, Solitaire, Inbox (with Spell Checker for email), Microsoft Reader (eBooks), File Explorer, MSN Messenger, Terminal Services Client, VPN Client, Infrared Beaming, Clock, Align Screen, File Explorer, Memory, Volume control
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Applications from Microsoft on Companion CD	Additional Software from Microsoft Outlook 2000, Microsoft ActiveSync 3.5 (Desktop device synchronization), Microsoft Reader eBooks, Links to Microsoft websites for additional downloadable applications (some programs may require purchase of additional desktop software to utilize Pocket PC versions)
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WLAN Specifications*

Radio Specifications	RF Network Standard	IEEE 802 Part 11b (802.11b)
	Frequency Band	2,4000 to 2.4835 GHz 2,4465 to 2.4835 GHz (France) 2,4000 to 2,4697 GHz (Japan)
	Number of Selectable Sub-channels	United States (FCC) 11 France (FR) 4 Japan (JP) 14 Other countries (ETSI) 13
	Data Rates	1, 2, 5.5, 11 Mbps
	Antenna type	High performance ½ wavelength stub, connected via micro strip touch pad
	WEP Security	64 bit encryption keys compliant to IEEE 802.11 128 bit encryption key compliant to IEEE 802.11
	Network Architecture Models	Ad-hoc (Peer to Peer) Infrastructure (Access Points Required)
	Modulation Technique	Direct Sequence Spread Spectrum
	Modulation Schemes	DBPSK, DQPSK, CCK
	Receiver Sensitivity – Bit Error Rate (1E-5)	11 Mbps: <-80 dBm 5.5 Mbps: <-82 dBm 2 Mbps: <-85 dBm 1 Mbps: <-88 dBm
	Maximum Receive Level	- 4 dBm (1/2 Mbits) -10dBm (5.5/11 Mbits)
	Output Power (approximately)	17 dBm
	Power Management	Radio On/Off control through Wireless Control or iPAQ WLAN application
	Power Consumption	Transfer mode: < 500 mA, maximum Receive mode: < 260 mA, maximum Standby mode: < 20 mA, nominal

Standard Features

Power Saving Option	802.11 Compliant Power Saving, 50 mA Power Saving Mode selectable through the configuration utility ACPI compliant power management	
Media Access Protocol	CSMA/CA (Collision Avoidance) with ACK	
Protocols Supported	TCP/IP IPX/SPX UDP	
Throughput	Data Rate	Operating Distance
> 4.5 Mbps	11 Mbps	<ul style="list-style-type: none"> • 1000 feet – Open sight • 100 feet – Closed space (Steel Space)
> 2 Mbps	5.5 Mbps	<ul style="list-style-type: none"> • 1100 feet – Open sight • 200 feet – Closed space (Steel Space)
> 700 Kbps	1 Mbps	<ul style="list-style-type: none"> • 1200 feet – Open sight • 300 feet – Closed space (Steel Space)
Certifications	All necessary regulatory approvals for countries we support including: WECA Wi-Fi approval FCC (47 CFR) Part 15C, Section 15.247&15.249 ETS 300 328, ETS 300 826 Low Voltage Directive IEC950 UL, CSA, and CE Mark	

Bluetooth Specifications*	Technology	High-speed, low-power, short-range
	Bluetooth specification	1.1 compliant (2.4-GHz Industrial Scientific Medical Band)
	System interface	921k high-speed UART processor interface
	User Interface	Bluetooth Manager
	Operating system support	Microsoft Pocket PC and Pocket PC 2003
	Device type	Class II device; up to 4 dBm transmit, typical 10 meter range
	Power	3.3V ± 5% Peak current - typical TX current at approximately 140 mA
	Receiver sensitivity	-78 dBm or greater
	Regulatory standards	R&TT#-EN 300 328 and EN 300 826, UL 1950, CB Safety Scheme inclusive of EN 60950 and IEC 950, FCC Part 15 subpart C, Canadian, CE
	Profile Support	General Access Profile Service Discovery Application Profile Serial Port Profile Generic Object Exchange Profile File Transfer Profile Dial-Up Networking Profile LAN Access Profile Object Push Profile Personal Area Networking Profile Basic Printing Profile Hard Copy Replacement Profile (printing)

Standard Features

Usage Models *

Service Discovery

Determine what Bluetooth devices are within range and support authorization

File Transfer:

File and directory browsing and navigation on another Bluetooth device.

File copying

Object manipulation – including add, delete, create new folders etc.

Serial Port:

Synchronization between PDA's and PC's

Access Point:

Wireless link to WAN thru cell phone

Agnostic to WAN technology

Send/receive SMS messages

Connect your printer and scanner to your personal network wirelessly

Adhoc Bluetooth Pico-networking (point to multi-point)

LAN Access:

Wireless link to Corporate LAN using Bluetooth

Corporate email, network neighborhood, access to LAN applications, file transfer, ftp, Internet browsing, etc, using TCP/IP

Access the Internet by connecting to your desktop or notebook over Bluetooth and using its network connection.

Object Push:

Exchange business cards, tasks, documents, appointments and more

Personal Area Networking:

Collaborate, chat, play games, exchange data

Adhoc peer to peer networking

Basic Printing and Hard Copy Replacement Profiles:

Print to any HP Bluetooth printer without the need for cables or specific print drivers

Certifications

All necessary regulatory approvals for countries we support including:

Bluetooth logo (FCC (47 CFR) Part 15C, Section 15.247&15.249 ETS 300 328, ETS 300 826 Low Voltage Directive IEC950 UL and CE Mark

NOTE: * A standard WLAN infrastructure, other devices enabled with Bluetooth, and a service contract with a wireless airtime provider may be required for applicable wireless communication. Wireless Internet use requires a separately purchased service contract. Check with a service provider for availability and coverage in your area. Not all web content available.

Biometric Fingerprint Reader

Thermal Silicon Sensor - measures the temperature differential between the skin ridges and the air caught in the fingerprint valleys.

280 pixel image width

500 dpi pixel pitch

Small sensor size (0.4 x 14 mm) optimized for handheld devices.

Full fingerprint image is captured by sweeping the finger across the sensor area

High quality image even with dry or difficult fingerprints

Self-cleaning - no latent print is left on the imaging surface

Operating System

Microsoft Pocket PC 2002

Standard Features

Service and Support

One-year parts and labor in most regions; two-year warranty in Europe (one-year warranty for rechargeable battery pack) 90 days technical support for software in all regions. Optional HP Care Pack available in North America for Next Business Day replacement (at additional charge)

Technical Specifications

System Unit	Dimensions	
	Length of Unit (without LAN antenna)	5.23 in (133.0 mm)
	Length of Unit (with LAN antenna)	5.43 in (138.0 mm)
	Width	3.30 to 3.03 in tapering (84.0 to 77.0 mm tapering)
	Depth	0.63 in (15.9 mm)
	Weight	7.26 oz (206 g)
	Operating Temperature	32° to 104° F (0° to 40° C)
	Operating Humidity	10% to 90%
	Regulatory Marks	Electrical Safety FCC Class B, VCCI, CE, C-Tick, CE Marking, C-UL, NOM
	RAM	64 MB
ROM (Flash)	48 MB (Flash ROM)	Up to 20 MB non-volatile flash ROM storage available in iPAQ File Store (varies by SKU)

TFT Color Display	Number of Colors	65,536 (64K 16-bit)
	Resolution (W x H)	240 x 320
	Dot Pitch	0.24 mm
	Viewable Image (W x H)	2.26 x 3.02 in (57.6 x 76.8 mm), 3.8 in Diagonal (96 mm)
	Display Type	Color (65,536 colors (16 bit) transfective thin film transistor (TFT) liquid crystal display (LCD))

AC Adapter	Dimensions (H x W x D)	3 x 1.9 x 1.8 in (76 x 48 x 44 mm) (including prongs)		
	Cord Length (approximate)	6 ft (1.83 m)		
	Power Supply Ratings	Voltage Range	100 to 240 V Switching	
		Input Current	0.3 A	
		Input Frequency	50 to 60 Hz	
		Output Voltage	5 VDC	
Output Current	2 Amp			

Removable/ Rechargeable Battery	1250 mAh Lithium Polymer
	Internal backup battery (not removable)

Technical Specifications

Battery Life Estimations Usage Scenarios using Slim Removable 1250 mAh battery

Idle Mode (screen active with no user Input or Output) Up to 12 hours

Active Mode, Backlight off (frequent user input) Up to 10 hours

Idle Mode, WLAN receive only (Power Management On) Up to 7 hours

Idle Mode, Backlight off, WLAN transmit and receive (Power Management On) Up to 4 hours

NOTE: These scenarios are estimations using the default Standby Setting of 72 hours. Battery life will vary based on an estimated typical use pattern of an average user, the configuration of the computer and the usage pattern of the individual user. Use of some attachments may significantly decrease battery life.

Options

Expansion Packs	CF Card Expansion Pack Plus	249709-B21
	PC Card Expansion Pack Plus	249708-B21
	CF Card Expansion Pack	170339-B22
	Dual-Slot PC Card Expansion Pack	216198-B21

Style Packs	Cover Pack	249707-B21
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Memory/Storage	IBM Microdrive with PC Card Adapter	217390-B25
	64-MB SD Memory Card	253478-B21
	128 MB SD Memory Card	253479-B21
	256 MB SD Memory Card	287464-B21
	CompactFlash (CF) 32-MB Memory Card	104703-004
	CompactFlash (CF) 64-MB Memory Card	104703-003

NOTE: any CF Card Expansion Pack required.

Power	AC Adapter	253629-xxx
	Auto Adapter	253508-B21
	Slim Battery for Expansion Pack Plus Products	253512-B21
	Extended Battery for Expansion Pack Plus Products	253514-B21
	iPAQ Pocket PC Slim Battery	290484-B21
	iPAQ Pocket PC Extended Battery	290486-B21
	Battery Charger	253516-B21
	Charger Adapter	274707-B21

NOTE: Part numbers ending with xxx are specific to country.

Synchronization	AutoSync Cable (USB and Serial)	250178-B21
	Desktop Cradle (USB and Serial)	250182-B21

Communications	WL110 Wireless PC Card (requires PC Card Expansion Pack)	191808-B21
	CompactFlash Modem 56K V.90 (requires CF Card Expansion Pack)	268927-xxx

NOTE: Part numbers ending with xxx are specific to country.

Cases	Expandable Case	217883-B22
	Premier Leather Case	253504-B21
	Zippered Leather Case	262207-B21
	Rugged Case	230465-B21
	Three Pack of Screen Protectors	253517-B21

Options

Other	Stylus Three-Pack Replacement Kit	253510-B21
	Micro Keyboard	250111-xxx
	Foldable Keyboard	249693-xxx

NOTE: Part numbers ending with xxx are specific to country.

NOTE*: Options are sold separately



HP iPAQ Pocket PC h5400 is a Microsoft® Windows® Powered Pocket PC

For more information on HP iPAQ Pocket PC, visit our website at <http://www.hp.com/go/iPAQ>

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